11. hashed

Does Not Comply 1652 Corrected Diskette Needea

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/367,013A

Input Set : A:\Cgabl.app

Output Set: N:\CRF3\08012000\I367013A.raw

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3 <110> APPLICANT: KNUTZON, DEBORAH
          MUKERJI, PRADIP
          HUANG, YUNG-SHENG
          THURMOND, JENNIFER
          CHAUDHARY, SUNITA
          LEONARD, AMANDA E
 10 <120> TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR SYNTHESIS OF LONG CHAIN
          POLYUNSATURATED FATTY ACIDS
13 <130> FILE REFERENCE: CGAB-210 USA
15 <140> CURRENT APPLICATION NUMBER: 09/367,013A
16 <141> CURRENT FILING DATE: 1999-08-05
18 <150> PRIOR APPLICATION NUMBER: 08/834,655
19 <151> PRIOR FILING DATE: 1997-04-11
21 <160> NUMBER OF SEQ ID NOS: 40
23 <170> SOFTWARE: PatentIn Ver. 2.1
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 1617
27 <212> TYPE: DNA
28 <213> ORGANISM: Mortierella alpina
31 <223> OTHER INFORMATION: Description of Combined DNA/RNA Molecule: ( ho respect about. 33 <400> SEQUENCE: 1
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Sel 1,823 of
hew Sequence
Render
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55 geaceaettg tteeettega tgeetegeea eaaettttea aagateeage etgetgtega 1320
56 gaccetgtge aaaaagtaca atgteegata ceacaceace ggtatgateg agggaactge 1380
57 agaggtettt ageegtetga acgaggtete caaggetgee tecaagatgg gtaaggegea 1440
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DATE: 08/01/2000

TIME: 16:10:58

RECEIVED 1.11G-9 2000 **TC** 1500 MAIL ROOM

RAW SEQUENCE LISTING DATE: 08/01/2000 PATENT APPLICATION: US/09/367,013A TIME: 16:10:58

Input Set : A:\Cgabl.app

Output Set: N:\CRF3\08012000\I367013A.raw

59 tgtcaagtcg agcgtttctg gaaaggatcg ttcagtgcag tatcatcatt ctccttttac 1560 60 cccccgctca tateteatte atttetetta ttaaacaact tgtteecece tteaceg 1617 63 <210> SEQ ID NO: 2 64 <211> LENGTH: 457 65 <212> TYPE: PRT 66 <213> ORGANISM: Mortierella alpina 68 <400> SEQUENCE: 2 69 Met Ala Ala Ala Pro Ser Val Arg Thr Phe Thr Arg Ala Glu Val Leu 10 72 Asn Ala Glu Ala Leu Asn Glu Gly Lys Lys Asp Ala Glu Ala Pro Phe 73 202530 75 Leu Met Ile Ile Asp Asn Lys Val Tyr Asp Val Arg Glu Phe Val Pro 76 35 40 4578 Asp His Pro Gly Gly Ser Val Ile Leu Thr His Val Gly Lys Asp Gly 79 50 55 60 81 Thr Asp Val Phe Asp Thr Phe His Pro Glu Ala Ala Trp Glu Thr Leu 82 65 70 75 80 84 Ala Asn Phe Tyr Val Gly Asp Ile Asp Glu Ser Asp Arg Asp Ile Lys 85 90 87 Asn Asp Asp Phe Ala Ala Glu Val Arg Lys Leu Arg Thr Leu Phe Gln
88 100 105 110 90 Ser Leu Gly Tyr Tyr Asp Ser Ser Lys Ala Tyr Tyr Ala Phe Lys Val 91 115 120 125 93 Ser Phe Asn Leu Cys Ile Trp Gly Leu Ser Thr Val Ile Val Ala Lys 94 $\,$ 130 $\,$ 135 $\,$ 140 96 Trp Gly Gln Thr Ser Thr Leu Ala Asn Val Leu Ser Ala Ala Leu Leu 97 145 150 160 99 Gly Leu Phe Trp Gln Gln Cys Gly Trp Leu Ala His Asp Phe Leu His 100 165 170 175 102 His Gln Val Phe Gln Asp Arg Phe Trp Gly Asp Leu Phe Gly Ala Phe 103 180 185 190 105 Leu Gly Gly Val Cys Gln Gly Phe Ser Ser Ser Trp Trp Lys Asp Lys 106 195 200 205 108 His Asn Thr His His Ala Ala Pro Asn Val His Gly Glu Asp Pro Asp 109 210 215 220 111 Ile Asp Thr His Pro Leu Leu Thr Trp Ser Glu His Ala Leu Glu Met 112 225 230 235 240 114 Phe Ser Asp Val Pro Asp Glu Glu Leu Thr Arg Met Trp Ser Arg Phe 115 245 250 255 117 Met Val Leu Asn Gln Thr Trp Phe Tyr Phe Pro Ile Leu Ser Phe Ala 118 260 265 270 120 Arg Leu Ser Trp Cys Leu Gln Ser Ile Leu Phe Val Leu Pro Asn Gly 121 275 280 285 123 Gln Ala His Lys Pro Ser Gly Ala Arg Val Pro Ile Ser Leu Val Glu 124 290 295 300 126 Gln Leu Ser Leu Ala Met His Trp Thr Trp Tyr Leu Ala Thr Met Phe 127 305 310 315 320 315 129 Leu Phe Ile Lys Asp Pro Val Asn Met Leu Val Tyr Phe Leu Val Ser 330

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/367,013A

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132 Gln Ala Val Cys Gly Asn Leu Leu Ala Ile Val Phe Ser Leu Asn His 133 340 345 135 Asn Gly Met Pro Val Ile Ser Lys Glu Glu Ala Val Asp Met Asp Phe 136 355 360 365 138 Phe Thr Lys Gln Ile Ile Thr Gly Arg Asp Val His Pro Gly Leu Phe 139 370 375 380 375 141 Ala Asn Trp Phe Thr Gly Gly Leu Asn Tyr Gln Ile Glu His His Leu 142 385 390 395 400 395 144 Phe Pro Ser Met Pro Arg His Asn Phe Ser Lys Ile Gln Pro Ala Val 145 405 410 415 147 Glu Thr Leu Cys Lys Lys Tyr Asn Val Arg Tyr His Thr Thr Gly Met 148 420 425 430 150 Ile Glu Gly Thr Ala Glu Val Phe Ser Arg Leu Asn Glu Val Ser Lys 151 435 440 445 153 Ala Ala Ser Lys Met Gly Lys Ala Gln 154 450 157 <210> SEQ ID NO: 3 158 <211> LENGTH: 1488 159 <212> TYPE: DNA 160 <213> ORGANISM: Mortierella alpina 162 <400> SEQUENCE: 3 163 gtcccctgtc gctgtcggca caccccatcc tccctcgctc cctctgcgtt tgtccttggc 60 164 ccaccgtete tectecacce tecgagacga etgeaactgt aateaggaac egacaaatac 120 165 acgatttett tttacteage accaacteaa aateeteaac egeaaceett ttteaggatg 180 166 gcacctocca acactatcga tgccggtttg acccagcgtc atatcagcac ctcggcccca 240 167 aacteggeea ageetgeett egagegeaac taccagetee eegagtteac catcaaggag 300 168 atccgagagt gcatccctgc ccactgcttt gagcgctccg gtctccgtgg tctctgccac 360 169 gttgccatcg atctgacttg ggcgtcgctc ttgttcctgg ctgcgaccca gatcgacaag 420 170 tttgagaatc ccttgatccg ctatttggcc tggcctgttt actggatcat gcagggtatt 480 171 gtctgcaccg gtgtctgggt gctggctcac gagtgtggtc atcagtcctt ctcgacctcc 540 172 aagaccetca acaacacagt tggttggate ttgcactcga tgctettggt eccetaceae 600 173 teetggagaa tetegeaete gaageaecae aaggeeaetg geeatatgae caaggaecag 660 174 gtetttgtge ccaagaceeg eteccaggtt ggettgeete ccaaggagaa egetgetget 720 175 gccgttcagg aggaggacat gtccgtgcac ctggatgagg aggctcccat tgtgactttg 780 176 ttctggatgg tgatccagtt cttgttcgga tggcccgcgt acctgattat gaacgcctct 840 177 ggccaagact acggccgctg gacctcgcac ttccacacgt actcgcccat ctttgagccc 900 178 cgcaactttt tcgacattat tatctcggac ctcggtgtgt tggctgccct cggtgccctg 960 179 atctatgcct ccatgcagtt gtcgctcttg accgtcacca agtactatat tgtcccctac 1020 180 ctctttgtca acttttggtt ggtcctgatc accttcttgc agcacaccga tcccaagctg 1080 181 ccccattacc gcgagggtgc ctggaatttc cagcgtggag ctctttgcac cgttgaccgc 1140 182 tcgtttggca agttcttgga ccatatgttc cacggcattg tccacaccca tgtggcccat 1200 183 cacttgttct cgcaaatgcc gttctaccat gctgaggaag ctacctatca tctcaagaaa 1260 184 ctgctgggag agtactatgt gtacgaccca tccccgatcg tcgttgcggt ctggaggtcg 1320 185 ttccgtgagt gccgattcgt ggaggatcag ggagacgtgg tctttttcaa gaagtaaaaa 1380 186 aaaagacaat ggaccacaca caaccttgtc tctacagacc tacgtatcat gtagccatac 1440 187 cacttcataa aagaacatga gototagagg ogtgtoatto gogootoo 190 <210> SEQ ID NO: 4 191 <211> LENGTH: 399

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RAW SEQUENCE LISTING DATE: 08/01/2000 PATENT APPLICATION: US/09/367,013A TIME: 16:10:58

Input Set : A:\Cgabl.app

Output Set: N:\CRF3\08012000\I367013A.raw

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RAW SEQUENCE LISTING DATE: 08/01/2000 PATENT APPLICATION: US/09/367,013A TIME: 16:10:58

Input Set : A:\Cgabl.app

Output Set: N:\CRF3\08012000\I367013A.raw

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 284 Trp Gly Leu Ser Thr Val Ile Val Ala Lys Trp Gly Gln Thr Ser Thr 285 40 45
287 Leu Ala Asn Val Leu Ser Ala Ala Leu Leu Gly Leu Phe Trp Gln Gln 288 50 60
290 Cys Gly Trp Leu Ala His Asp Phe Leu His His Gln Val Phe Gln Asp 291 65 70 75 80
293 Arg Phe Trp Gly Asp Leu Phe Gly Ala Phe Leu Gly Gly Val Cys Gln 294 85 90 95
296 Gly Phe Ser Ser Ser Trp Trp Lys Asp Lys His Asn Thr His His Ala
297 100 105 110
299 Ala Pro Asn Val His Gly Glu Asp Pro Asp Ile Asp Thr His Pro Leu 300 115 120 125
302 Leu Thr Trp Ser Glu His Ala Leu Glu Met Phe Ser Asp Val Pro Asp 303 130 135 140
305 Glu Glu Leu Thr Arg Met Trp Ser Arg Phe Met Val Leu Asn Gln Thr
306 145 150 155 160
308 Trp Phe Tyr Phe Pro Ile Leu Ser Phe Ala Arg Leu Ser Trp Cys Leu 309 165 170 175
311 Gln Ser Ile Leu Phe Val Leu Pro Asn Gly Gln Ala His Lys Pro Ser 312 180 185 190
314 Gly Ala Arg Val Pro Ile Ser Leu Val Glu Gln Leu Ser Leu Ala Met
315 200 205
317 His Trp Thr Trp Tyr Leu Ala Thr Met Phe Leu Phe Ile Lys Asp Pro 318 210 215 220
320 Val Asn Met Leu Val Tyr Phe Leu Val Ser Gln Ala Val Cys Gly Asn 321 225 230 235 240
323 Leu Leu Ala Ile Val Phe Ser Leu Asn His Asn Gly Met Pro Val Ile
324 245 250 250
326 Ser Lys Glu Glu Ala Val Asp Met Asp Phe Phe Thr Lys Gln Ile Ile 327 260 265 270
329 Thr Gly Arg Asp Val His Pro Gly Leu Phe Ala Asn Trp Phe Thr Gly 330 275 280 285
332 Gly Leu Asn Tyr Gln Ile Glu His His Leu Phe Pro Ser Met Pro Arg
333 290 295 300
335 His Asn Phe Ser Lys Ile Gln Pro Ala Val Glu Thr Leu Cys Lys 336 305 310 315 320
338 Tyr Asn Val Arg Tyr His Thr Thr Gly Met Ile Glu Gly Thr Ala Glu
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY DATE: 08/01/2000 PATENT APPLICATION: US/09/367,013A TIME: 16:10:59

Input Set : A:\Cgabl.app

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  L:363 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:6
  L:363 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:6
  M:340 Repeated in SeqNo=6
 L:366 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:6
L:366 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:6
L:444 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:8
 L:444 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:8
L:444 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:8
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  M:340 Repeated in SeqNo=8
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VERIFICATION SUMMARY
PATENT APPLICATION: US/09/367,013A

DATE: 08/01/2000
TIME: 16:10:59

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Output Set: N:\CRF3\08012000\I367013A.raw

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L:1529 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:39 M:340 Repeated in SeqNo=39 L:1684 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:40 M:340 Repeated in SeqNo=40